

Jan please

Access DB#

SEARCH REQUEST FORM

Scientific and Technical Information Center

59915

10/695536

Requester's Full Name: S. Kumar Examiner #: _____ Date: 2/8/02
Art Unit: 1621 Phone Number 308-4519 Serial Number: 09/635,216 10/230,133
Mail Box and Bldg/Room Location: CM 7A07 Results Format Preferred (circle): PAPER DISK E-MAIL
TF 10

If more than one search is submitted, please prioritize searches in order of need. MSJ

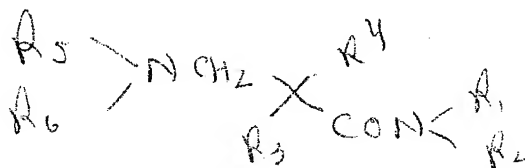
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Antagonists of the Magnesium binding defect as therapeutic agents...

Inventors (please provide full names): Ibert Clifton WELLS

Earliest Priority Filing Date: 2/9/2000

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.



Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 - 703-308-4498
jan.delaval@uspto.gov

X is trans $>C=CH-CH=C<$ trans $>C=C<$ $>CAH-(CH_2)_m-He<$

See claims.

Species 1 claim

72

=> fil reg

FILE 'REGISTRY' ENTERED AT 11:34:46 ON 12 FEB 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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STRUCTURE FILE UPDATES: 10 FEB 2002 HIGHEST RN 391197-12-9
DICTIONARY FILE UPDATES: 10 FEB 2002 HIGHEST RN 391197-12-9

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

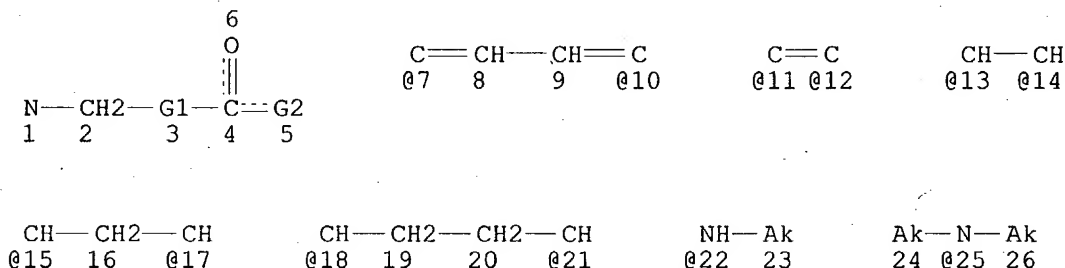
Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the
CAS Registry Numbers that were added to the H/Z/CA/CAplus files between
12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches
during this period, either directly appended to a CAS Registry Number
or by qualifying an L-number with /P, may have yielded incomplete results.
As of 1/23/02, the situation has been resolved. Also, note that searches
conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAplus files
incorporating CAS Registry Numbers with the P indicator between 12/27/01
and 1/23/02, are encouraged to re-run these strategies. Contact the
CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698,
worldwide, or send an e-mail to help@cas.org for further assistance or to
receive a credit for any duplicate searches.

=> d sta que 140

L11 STR



VAR G1=7-2 10-4/11-2 12-4/13-2 14-4/15-2 17-4/18-2 21-4

VAR G2=NH2/22/25

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 23

CONNECT IS E1 RC AT 24

CONNECT IS E1 RC AT 26

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE

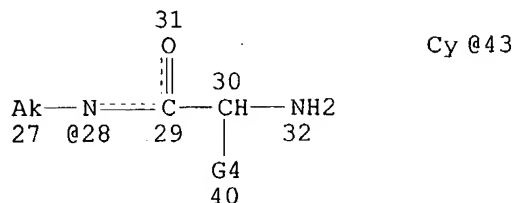
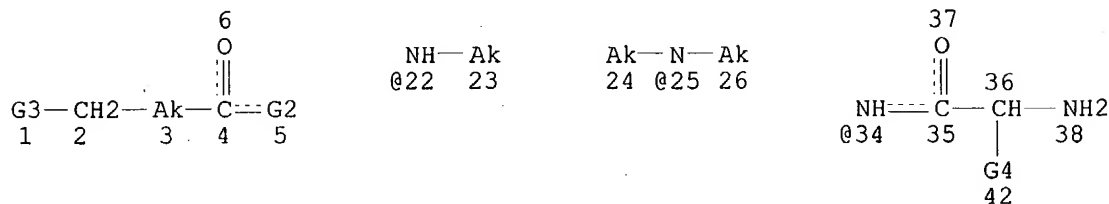
L24 SCR 2016 OR 2026 OR 1997 OR 1841

L27 SCR 2039 OR 2050 OR 2049 OR 2048 OR 2053 OR 2052 OR 2051 O

R 2043 OR 2054

L29 4354 SEA FILE=REGISTRY SSS FUL L11 NOT (L24 OR L27)

L33 STR



VAR G2=NH2/22/25

VAR G3=NH2/22/34/28

VAR G4=AK/43

NODE ATTRIBUTES:

CONNECT IS M1 RC AT 43

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE

L35 84 SEA FILE=REGISTRY SUB=L29 CSS FUL L33

L36 12 SEA FILE=REGISTRY ABB=ON PLU=ON L35 AND (C6H14N2O OR C5H10N2O)

L37 1 SEA FILE=REGISTRY ABB=ON PLU=ON L36 AND PENTANAMIDE AND AMINOMETHYL

L38 1 SEA FILE=REGISTRY ABB=ON PLU=ON L36 AND PENTANAMIDE AND 5 AMINO 4 METHYL

L39 1 SEA FILE=REGISTRY ABB=ON PLU=ON L36 AND BUTENAMIDE

L40 3 SEA FILE=REGISTRY ABB=ON PLU=ON (L37 OR L38 OR L39)

=> d ide can tot 140

L40 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2002 ACS

RN 214783-27-4 REGISTRY

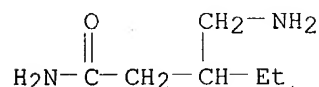
CN Pentanamide, 3-(aminomethyl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C6 H14 N2 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

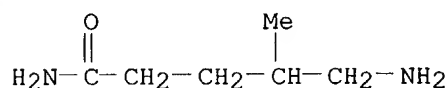
2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:102645

REFERENCE 2: 129:316688

L40 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2002 ACS
 RN 214783-26-3 REGISTRY
 CN **Pentanamide, 5-amino-4-methyl-** (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C6 H14 N2 O
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



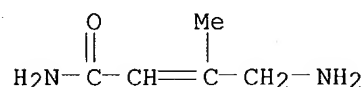
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:102645

REFERENCE 2: 129:316688

L40 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2002 ACS
 RN 102831-39-0 REGISTRY
 CN **2-Butenamide, 4-amino-3-methyl-, monohydrochloride** (9CI) (CA INDEX NAME)
 MF C5 H10 N2 O . Cl H
 SR CA
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
 (*File contains numerically searchable property data)



● HCl

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 105:60922

=> d his 140-

(FILE 'REGISTRY' ENTERED AT 09:52:55 ON 12 FEB 2002)
 L40 3 S L37-L39

FILE 'HCAOLD' ENTERED AT 11:34:11 ON 12 FEB 2002
 L41 0 S L40

FILE 'HCAPLUS' ENTERED AT 11:34:14 ON 12 FEB 2002
 L42 3 S L40

FILE 'USPATFULL, USPAT2' ENTERED AT 11:34:28 ON 12 FEB 2002

L43 1 S L40

FILE 'REGISTRY' ENTERED AT 11:34:46 ON 12 FEB 2002

=> fil uspatall

FILE 'USPATFULL' ENTERED AT 11:35:22 ON 12 FEB 2002

CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 11:35:22 ON 12 FEB 2002

CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

=> d 143 bib abs hitstr

L43 ANSWER 1 OF 1 USPATFULL

AN 1999:81945 USPATFULL

TI Epsilon caprolactam compositions

IN Maher, John Michael, Charleston, WV, United States
Bryant, David Robert, South Charleston, WV, United States
Holladay, Johnathan Eugene, Charleston, WV, United States
Eisenschmid, Thomas Carl, Cross Lanes, WV, United States
Briggs, John Robert, Charleston, WV, United States
Olson, Kurt Damar, Cross Lanes, WV, United States

PA Union Carbide Chemicals & Plastics Technology Corporation, Danbury, CT,
United States (U.S. corporation)

PI US 5925754 19990720

AI US 1997-956745 19971023 (8)

RLI Continuation-in-part of Ser. No. US 1997-839576, filed on 15 Apr 1997
And Ser. No. US 1997-843340, filed on 15 Apr 1997

DT Utility

FS Granted

EXNAM Primary Examiner: Raymond, Richard L.; Assistant Examiner: Kifle, Bruck

LREP Coon, Gerald L.

CLMN Number of Claims: 9

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1451

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to a composition comprising (a) epsilon caprolactam and (b) one or more of 5-[4,5-di(3-carboxypropyl)-2-pyridyl]pentanoic acid or salt or amide, 4-[4,5-di(2-carboxypropyl)-2-pyridyl]-2-methylbutanoic acid or salt or amide, 2-[2-(2-carboxybutyl)-5-(1-carboxypropyl)-4-pyridyl]butanoic acid or salt or amide, 5-[3,5-di(3-carboxypropyl)-2-pyridyl]pentanoic acid or salt or amide, 4-[3,5-di(2-carboxypropyl)-2-pyridyl]-2-methylbutanoic acid or salt or amide, 2-[2-(2-carboxybutyl)-5-(1-carboxypropyl)-3-pyridyl]butanoic acid or salt or amide, 5-amino-4-methylpentanamide, 4-amino-3-ethylbutanamide, 5-[4,5-di(4-hydroxybutyl)-2-pyridyl]pentanol, 4-[4,5-di(2-methoxypropyl)-2-pyridyl]-2-methylbutanol, 2-[2-(2-methoxybutyl)-5-(1-methoxypropyl)-4-pyridyl]butanol, 5-[3,5-di(4-hydroxybutyl)-2-pyridyl]pentanol, 4-[3,5-di(2-methoxypropyl)-2-pyridyl]-2-methylbutanol, 2-[2-(2-methoxybutyl)-5-(1-methoxypropyl)-3-pyridyl]butanol, 5-amino-4-methyl-1-pentanol, 5-imino-2-methyl-1-pentanamine, 5-amino-2-methyl-1-pentanol, 5-imino-4-methyl-1-pentanamine and 2-butyl-4,5-dipropylpyridine, wherein the weight ratio of component (a) to component (b) is at least about 99 to 1. The epsilon caprolactam compositions are useful in the preparation of nylon 6.

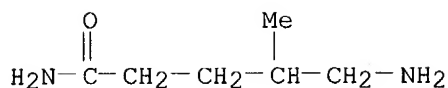
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 214783-26-3P 214783-27-4P

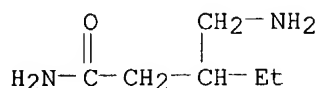
(prodn. of caprolactam comps. contg. different byproducts)

RN 214783-26-3 USPATFULL

CN Pentanamide, 5-amino-4-methyl- (9CI) (CA INDEX NAME)



RN 214783-27-4 USPATFULL
 CN Pentanamide, 3-(aminomethyl)- (9CI) (CA INDEX NAME)



=> fil hcaplus
 FILE 'HCAPLUS' ENTERED AT 11:35:35 ON 12 FEB 2002
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FILE COVERS 1907 - 8 Feb 2002 VOL 136 ISS 7
 FILE LAST UPDATED: 30 Jan 2002 (20020130/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

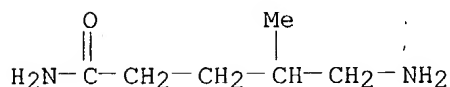
The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/Z/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

=> d 142 bib abs hitstr retable tot

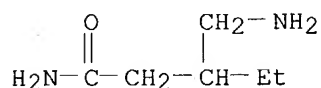
L42 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2002 ACS
 AN 1999:450917 HCAPLUS
 DN 131:102645
 TI Production of caprolactam compositions containing different byproducts for easier separation
 IN Maher, John Michael; Bryant, David Robert; Holladay, Johnathan Eugene; Eisen Schmid, Thomas Carl; Briggs, John Robert; Olson, Kurt Damar
 PA Union Carbide Chemicals & Plastics Technology Corporation, USA
 SO U.S., 15 pp.
 CODEN: USXXAM
 DT Patent
 LA English

FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5925754	A	19990720	US 1997-956745	19971023
	US 5817883	A	19981006	US 1997-843340	19970415
	US 5962680	A	19991005	US 1997-839576	19970415
	WO 9846564	A1	19981022	WO 1998-US7486	19980414
	W: BR, CA, CN, JP, KP, KR, MX, PL, RU, SG				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 975590	A1	20000202	EP 1998-915567	19980414
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE, PT				
	JP 2001521569	T2	20011106	JP 1998-544206	19980414
	BR 9808872	A	20011120	BR 1998-8872	19980414
PRAI	US 1997-839576	A2	19970415		
	US 1997-843340	A2	19970415		
	US 1997-956745	A	19971023		
	WO 1998-US7486	W	19980414		
AB	Title compns. comprise (a) .epsilon.-caprolactam and (b) one or more of 5-[4,5-di(3-carboxypropyl)-2-pyridyl]pentanoic acid or salt or amide, 4-[4,5-di(2-carboxypropyl)-2-pyridyl]-2-methylbutanoic acid or salt or amide, 2-[2-(2-carboxybutyl)-5-(1-carboxypropyl)-4-pyridyl]butanoic acid or salt or amide, 5-[3,5-di(3-carboxypropyl)-2-pyridyl]pentanoic acid or salt or amide, 4-[3,5-di(2-carboxypropyl)-2-pyridyl]-2-methylbutanoic acid or salt or amide, 2-[2-(2-carboxybutyl)-5-(1-carboxypropyl)-3-pyridyl]butanoic acid or salt or amide, 5-amino-4-methylpentanamide, 4-amino-3-ethylbutanamide, 5-[4,5-di(4-hydroxybutyl)-2-pyridyl]pentanol, 4-[4,5-di(2-methoxypropyl)-2-pyridyl]-2-methylbutanol, 2-[2-(2-methoxybutyl)-5-(1-methoxypropyl)-4-pyridyl]butanol, 5-[3,5-di(4-hydroxybutyl)-2-pyridyl]pentanol, 4-[3,5-di(2-methoxypropyl)-2-pyridyl]-2-methylbutanol, 2-[2-(2-methoxybutyl)-5-(1-methoxypropyl)-3-pyridyl]butanol, 5-amino-4-methyl-1-pentanol, 5-imino-2-methyl-1-pentanamine, 5-amino-2-methyl-1-pentanol, 5-imino-4-methyl-1-pentanamine and 2-butyl-4,5-dipropylpyridine, in a:b wt. ratio at least about 99 to 1. The byproducts result from reductive amination and cyclization of C6 difunctional intermediates produced by carbonylation of butadiene. The .epsilon.-caprolactam compns. are useful in the prepn. of nylon 6.				
IT	214783-26-3P 214783-27-4P				
	RL: BYP (Byproduct); PREP (Preparation) (prodn. of caprolactam compns. contg. different byproducts)				
RN	214783-26-3 HCAPLUS				
CN	Pentanamide, 5-amino-4-methyl- (9CI) (CA INDEX NAME)				



RN 214783-27-4 HCAPLUS
CN Pentanamide, 3-(aminomethyl)- (9CI) (CA INDEX NAME)



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Anon	1971			GB 1254222	HCAPLUS
Anon	1974			GB 1357735	HCAPLUS
Anon	1984			RU 1087510	
Anon	1986			EP 0183545	HCAPLUS

Anon	1987			EP 0271145	HCAPLUS
Anon	1988			EP 0273489	HCAPLUS
Anon	1989			EP 0343819	HCAPLUS
Anon	1990			EP 0351616	HCAPLUS
Anon	1990			EP 0405433	HCAPLUS
Anon	1991			EP 0420510	HCAPLUS
Anon	1991			EP 0448848	HCAPLUS
Anon	1991			RU 150453	
Anon	1992			EP 0511126	HCAPLUS
Anon	1993			EP 0556681	HCAPLUS
Anon	1993			EP 0562450	HCAPLUS
Anon	1993			EP 0577205	HCAPLUS
Anon	1993			JP 06306012	HCAPLUS
Anon	1994			EP 0602442	HCAPLUS
Anon	1994			EP 0643031	HCAPLUS
Anon	1994			WO 9426688	HCAPLUS
Anon	1995			EP 0648731	HCAPLUS
Anon	1995			EP 0662468	HCAPLUS
Anon	1995			EP 0712828	HCAPLUS
Anon	1995			WO 9506025	HCAPLUS
Anon	1995			WO 9506027	HCAPLUS
Anon	1995			WO 9518089	HCAPLUS
Anon	1995			WO 9518783	HCAPLUS
Anon	1995			WO 9530680	HCAPLUS
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Anon	1996			EP 0729944	HCAPLUS
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Anon	1997			EP 0761634	HCAPLUS
Atadan	1994			US 5292944	HCAPLUS
Bahrman	1996			US 5583250	HCAPLUS
Bahrman, I	1980	8	329	Journal of Molecular	
Bertleff	1990			US 4910328	HCAPLUS
Bertleff	1991			US 5003102	HCAPLUS
Bertozzi, S	1995	487	41	Journal of Organomet	HCAPLUS
Billig	1988			US 4769498	HCAPLUS
Botteghi, C	1980	184	C17	Journal of Organomet	HCAPLUS
Bunel	1994			US 5288903	HCAPLUS
Burke	1986			US 4622423	HCAPLUS
Burke	1992			US 5145995	HCAPLUS
Burke	1993			US 5250726	HCAPLUS
Carlock	1980			US 4185083	HCAPLUS
Carlock	1980			US 4189448	HCAPLUS
Carlock	1980			US 4214109	HCAPLUS
Denis	1993			US 5198577	HCAPLUS
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Dennis	1984			US 4482749	HCAPLUS
Dennis	1986			US 4567306	HCAPLUS
Drent	1989			US 4824817	HCAPLUS
Drent	1991			US 5028734	HCAPLUS
D'Amore	1991			US 5026901	HCAPLUS
Fell	1995			US 5434312	HCAPLUS
Fell, B	1975	99	1	Chemical-Zeitung	
Fell, B	1977	2	211	Journal of Molecular	HCAPLUS
Fujita	1972			US 3652549	HCAPLUS
Henin	1987			US 4658068	HCAPLUS
Hignett	1980			US 4200591	HCAPLUS
Hignett	1980			US 4200592	HCAPLUS
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Hoshiyama	1984			US 4447661	HCAPLUS
Hutmacher	1988			US 4730041	HCAPLUS
Hutmacher	1988			US 4731445	HCAPLUS
Jenck	1991			US 5041642	HCAPLUS
Johnson	1972			US 3660493	HCAPLUS
Johnson	1983			US 4409418	HCAPLUS
Kim	1980			US 4198352	HCAPLUS

Knifton	1984		US 4451679	HCAPLUS
Knifton	1984		US 4469892	HCAPLUS
Kummer	1976		US 3947503	HCAPLUS
Maerkl	1990		US 4894474	HCAPLUS
Maerkl	1990		US 4925972	HCAPLUS
Merger	1991		US 5068398	HCAPLUS
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Nienburg	1978		US 4101588	
Ohyama	1983		US 4376212	HCAPLUS
Oswald	1985		US 4528404	HCAPLUS
Packett	1994		US 5312996	HCAPLUS
Panitz	1992		US 5159107	HCAPLUS
Platz	1985		US 4550195	HCAPLUS
Roeper	1993		US 5264616	HCAPLUS
Saito	1981		US 4263449	HCAPLUS
Sato	1993		US 5177228	HCAPLUS
Schneider	1986		US 4586987	HCAPLUS
Schneider	1989		US 4801738	HCAPLUS
Sheehan	1969		US 3485821	
Sielcken	1996		US 5495041	HCAPLUS
Slaugh	1966		US 3239566	HCAPLUS
Smith	1980		US 4224255	HCAPLUS
Vagt	1988		US 4730040	HCAPLUS
Van Leeuwen, P	1985	31 345	Journal of Molecular	HCAPLUS
van Vliet	1987		US 4647707	HCAPLUS
Vargas	1994		US 5306848	HCAPLUS
Yates	1984		US 4443638	HCAPLUS
Young	1986		US 4625068	HCAPLUS

L42 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2002 ACS

AN 1998:706201 HCAPLUS

DN 129:316688

TI Epsilon caprolactam compositions and byproducts

IN Maher, John Michael; Bryant, David Robert; Holladay, Johnathan Eugene; Eisenschmid, Thomas Carl; Briggs, John Robert; Olson, Kurt Damar

PA Union Carbide Chemicals & Plastics Technology Corp., USA

SO PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9846564	A1	19981022	WO 1998-US7486	19980414
	W: BR, CA, CN, JP, KP, KR, MX, PL, RU, SG				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 5817883	A	19981006	US 1997-843340	19970415
	US 5962680	A	19991005	US 1997-839576	19970415
	US 5925754	A	19990720	US 1997-956745	19971023
	EP 975590	A1	20000202	EP 1998-915567	19980414
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE, PT				
	JP 2001521569	T2	20011106	JP 1998-544206	19980414
	BR 9808872	A	20011120	BR 1998-8872	19980414
PRAI	US 1997-839576	A	19970415		
	US 1997-843340	A	19970415		
	US 1997-956745	A	19971023		
	WO 1998-US7486	W	19980414		

AB This invention relates to a compn. comprising (a) epsilon caprolactam and (b) one or more of 5-[4,5-di(3-carboxypropyl)-2-pyridyl]pentanoic acid or salt or amide, 4-[4,5-di(2-carboxypropyl)-2-pyridyl]-2-methylbutanoic acid or salt or amide, 2-[2-(2-carboxybutyl)-5-(1-carboxypropyl)-4-pyridyl]butanoic acid or salt or amide, 5-[3,5-di(3-carboxypropyl)-2-pyridyl]pentanoic acid or salt or amide, 4-[3,5-di(2-carboxypropyl)-2-pyridyl]-2-methylbutanoic acid or salt or amide, 2-[2-(2-carboxybutyl)-5-

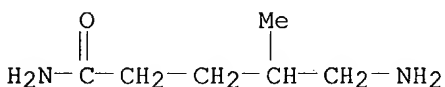
(1-carboxypropyl)-3-pyridyl]butanoic acid or salt or amide, 5-amino-4-methylpentanamide, 4-amino-3-ethylbutanamide, 5-[4,5-di(4-hydroxybutyl)-2-pyridyl]pentanol, 4-[4,5-di(2-methoxypropyl)-2-pyridyl]-2-methylbutanol, 2-[2-(2-methoxybutyl)-5-(1-methoxypropyl)-4-pyridyl]butanol, 5-[3,5-di(4-hydroxybutyl)-2-pyridyl]pentanol, 4-[3,5-di(2-methoxypropyl)-2-pyridyl]-2-methylbutanol, 2[2-(2-methoxybutyl)-5-(1-methoxypropyl)-3-pyridyl]butanol, 5-amino-4-methyl-1-pentanol, 5-imino-2-methyl-1-pentanamine, 5-amino-2-methyl-1-pentanol, 5-imino-4-methyl-1-pentanamine and 2-butyl-4,5-dipropylpyridine, wherein the wt. ratio of component a) to component b) is at least about 99 to 1. The epsilon caprolactam compns. are useful in the prepn. of nylon 6.

IT 214783-26-3P 214783-27-4P

RL: BYP (Byproduct); PREP (Preparation)
(epsilon caprolactam compns. and byproducts)

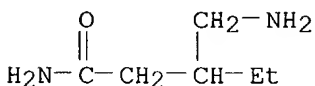
RN 214783-26-3 HCAPLUS

CN Pentanamide, 5-amino-4-methyl- (9CI) (CA INDEX NAME)



RN 214783-27-4 HCAPLUS

CN Pentanamide, 3-(aminomethyl)- (9CI) (CA INDEX NAME)



L42 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2002 ACS

AN 1986:460922 HCAPLUS

DN 105:60922

TI .beta.-Methyleneglutamic acid and .beta.-methyleneglutamine

AU Paik, Yi Hyon; Dowd, Paul

CS Dep. Chem., Univ. Pittsburgh, Pittsburgh, PA, 15260, USA

SO J. Org. Chem. (1986), 51(15), 2910-13

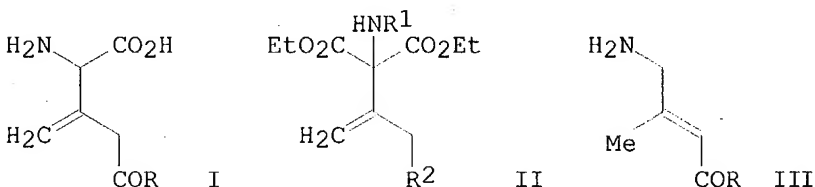
CODEN: JOCEAH; ISSN: 0022-3263

DT Journal

LA English

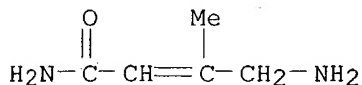
OS CASREACT 105:60922

GI



AB Title compds. DL-I (R = OH and NH₂, resp.) were prepd. from aminomalonates and allenes. Thus, AcNHCH(CO₂Et)₂ was treated with HgC:C:CHCO₂Et in the presence of EtONa to give adduct II (R₁ = Ac, R₂ = CO₂Et), which was hydrolyzed by 20% HCl at 50.degree. to give DL-I.cntdot.HCl (R = OH) and unsatd. acid III.cntdot.HCl (R = OH). Also, BocNHCH(CO₂Et)₂ (Boc = Me₃CO₂C) was treated with H₂C:C:CHCN in the presence of EtONa to give II (R₁ = Boc, R₂ = CN), which was hydrolyzed by 20% HCl at 50.degree. to give DL-I.cntdot.HCl (R = NH₂) and unsatd. amide III (R = NH₂).

IT 102831-39-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 102831-39-0 HCAPLUS
 CN 2-Butenamide, 4-amino-3-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

=> d his

(FILE 'HOME' ENTERED AT 09:48:46 ON 12 FEB 2002)
 SET COST OFF

FILE 'HCAPLUS' ENTERED AT 09:49:03 ON 12 FEB 2002

L1 E WELLS I/AU
 52 S E3,E4,E14
 E MAGNESIUM/CS, PA
 L2 0 S (MAGNES?(L)DIAG?)/PA,CS
 L3 9 S L1 AND (MAGNESIUM OR MG###)

FILE 'REGISTRY' ENTERED AT 09:51:04 ON 12 FEB 2002

L4 1 S 7439-95-4

FILE 'HCAPLUS' ENTERED AT 09:51:31 ON 12 FEB 2002

L5 2 S L4 AND L1
 L6 9 S L3,L5

FILE 'REGISTRY' ENTERED AT 09:51:56 ON 12 FEB 2002

L7 1 S 22537-22-0
 E. MAGNESIUM, ION/CN
 L8 1 S E4

FILE 'HCAPLUS' ENTERED AT 09:52:30 ON 12 FEB 2002

L9 1 S L7,L8 AND L1
 L10 9 S L6,L9

FILE 'REGISTRY' ENTERED AT 09:52:55 ON 12 FEB 2002

L11 STR
 L12 30 S L11
 L13 STR L11
 L14 4 S L13
 L15 SCR 2043 OR 2127
 L16 5 S L13 NOT L15
 L17 SCR 2039 OR 2127 OR 2050 OR 2049 OR 2048 OR 2053 OR 2052 OR 205
 L18 3 S L13 NOT L17
 L19 STR L13
 L20 3 S L19 NOT L17
 L21 STR L19
 L22 0 S L21 NOT L17 CSS SAM
 L23 17 S L11 NOT L17 SAM
 L24 SCR 2016 OR 2026 OR 1997 OR 1841
 L25 12 S L11 NOT (L17 OR L24)
 L26 0 S L21 NOT (L17 OR L24) CSS SAM
 L27 SCR 2039 OR 2050 OR 2049 OR 2048 OR 2053 OR 2052 OR 2051 OR 204
 L28 14 S L11 NOT (L24 OR L27)
 L29 4354 S L11 NOT (L24 OR L27) FUL

SAV KUMAR635/A L29
L30 0 S L21 CSS SAM SUB=L29
L31 23 S L21 SAM SUB=L29
L32 0 S L21 CSS FUL SUB=L29
L33 STR L19
L34 4 S L33 CSS SAM SUB=L29
L35 84 S L33 CSS FUL SUB=L29
SAV L35 KUMAR635A/A
L36 12 S L35 AND (C6H14N2O OR C5H10N2O)
L37 1 S L36 AND PENTANAMIDE AND AMINOMETHYL
L38 1 S L36 AND PENTANAMIDE AND 5 AMINO 4 METHYL
L39 1 S L36 AND BUTENAMIDE
L40 3 S L37-L39

L41 FILE 'HCAOLD' ENTERED AT 11:34:11 ON 12 FEB 2002
0 S L40

L42 FILE 'HCAPLUS' ENTERED AT 11:34:14 ON 12 FEB 2002
3 S L40

L43 FILE 'USPATFULL, USPAT2' ENTERED AT 11:34:28 ON 12 FEB 2002
1 S L40

=> fil reg

FILE 'REGISTRY' ENTERED AT 12:30:03 ON 12 FEB 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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STRUCTURE FILE UPDATES: 10 FEB 2002 HIGHEST RN 391197-12-9
DICTIONARY FILE UPDATES: 10 FEB 2002 HIGHEST RN 391197-12-9

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

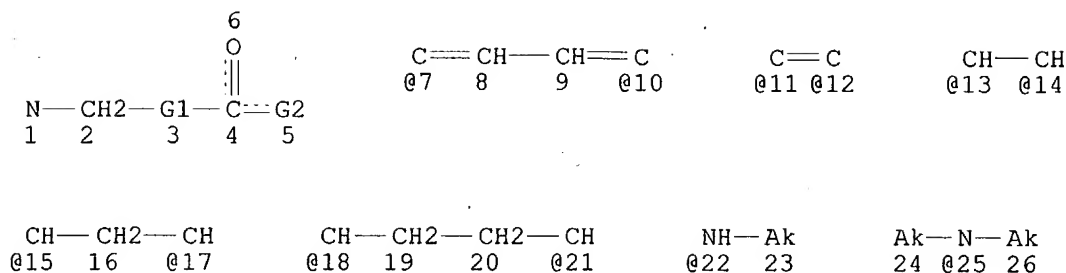
Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the
CAS Registry Numbers that were added to the H/Z/CA/CAPLUS files between
12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches
during this period, either directly appended to a CAS Registry Number
or by qualifying an L-number with /P, may have yielded incomplete results.
As of 1/23/02, the situation has been resolved. Also, note that searches
conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAPLUS files
incorporating CAS Registry Numbers with the P indicator between 12/27/01
and 1/23/02, are encouraged to re-run these strategies. Contact the
CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698,
worldwide, or send an e-mail to help@cas.org for further assistance or to
receive a credit for any duplicate searches.

=> d sta que 18

L1 STR



VAR G1=7-2 10-4/11-2 12-4/13-2 14-4/15-2 17-4/18-2 21-4

VAR G2=NH2/22/25

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 23

CONNECT IS E1 RC AT 24

CONNECT IS E1 RC AT 26

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE

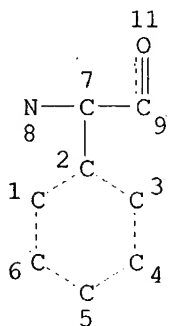
L2 SCR 2016 OR 2026 OR 1997 OR 1841

L3 SCR 2039 OR 2050 OR 2049 OR 2048 OR 2053 OR 2052 OR 2051 O

R 2043 OR 2054

L4 4354 SEA FILE=REGISTRY SSS FUL L1 NOT (L2 OR L3)

L5 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L7 17 SEA FILE=REGISTRY SUB=L4 SSS FUL L5

L8 3 SEA FILE=REGISTRY ABB=ON PLU=ON L7 AND NA/ELS

=> d his 18-

(FILE 'REGISTRY' ENTERED AT 12:24:47 ON 12 FEB 2002)

SAV L7 KUMAR635B/A

L8 3 S L7 AND NA/ELS

FILE 'HCAOLD' ENTERED AT 12:29:22 ON 12 FEB 2002

L9 0 S L8

FILE 'HCAPLUS' ENTERED AT 12:29:26 ON 12 FEB 2002

L10 2 S L8

FILE 'USPATFULL, USPAT2' ENTERED AT 12:29:43 ON 12 FEB 2002

L11 0 S L8

FILE 'REGISTRY' ENTERED AT 12:30:03 ON 12 FEB 2002

=> d ide can tot l8

L8 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2002 ACS

RN 61544-14-7 REGISTRY

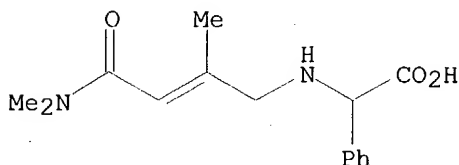
CN Benzeneacetic acid, .alpha.-[[4-(dimethylamino)-2-methyl-4-oxo-2-butenyl]amino]-, monosodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzeneacetic acid, .alpha.-[[4-(dimethylamino)-2-methyl-4-oxo-2-butenyl]amino]-, monosodium salt, (.+-.)-

MF C15 H20 N2 O3 . Na

LC STN Files: CA, CAPLUS



● Na

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 86:55412

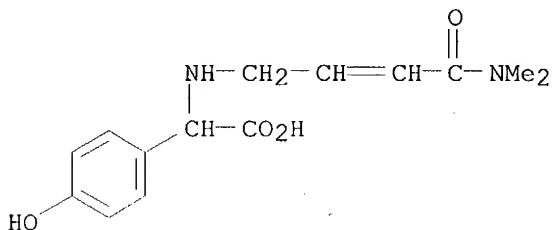
L8 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2002 ACS

RN 50971-89-6 REGISTRY

CN Benzeneacetic acid, .alpha.-[[4-(dimethylamino)-4-oxo-2-butenyl]amino]-4-hydroxy-, monosodium salt (9CI) (CA INDEX NAME)

MF C14 H18 N2 O4 . Na

LC STN Files: CA, CAPLUS



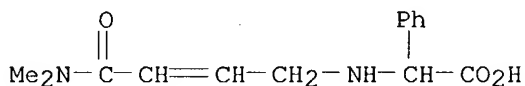
● Na

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 80:14945

L8 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2002 ACS
RN 50971-87-4 REGISTRY
CN Benzeneacetic acid, .alpha.-[[4-(dimethylamino)-4-oxo-2-butenyl]amino]-,
monosodium salt (9CI) (CA INDEX NAME)
MF C14 H18 N2 O3 . Na
LC STN Files: CA, CAPLUS



● Na

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 80:14945

=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 12:30:17 ON 12 FEB 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 8 Feb 2002 VOL 136 ISS 7
FILE LAST UPDATED: 30 Jan 2002 (20020130/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

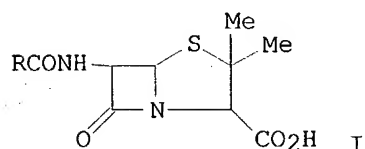
The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/Z/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

=> d bib abs hitstr retable tot 110

L10 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2002 ACS
AN 1977:55412 HCAPLUS
DN 86:55412
TI DL-6-Aminoacylamidopenicillanic acids

PA Osaka University, Japan
 SO Ger. Offen., 24 pp. Division of Ger. Offen. 2,020,133.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2065879	A1	19760826	DE 1970-2065879	19700424
	NL 7005611	A	19701103	NL 1970-5611	19700417
	DK 132026	B	19751013	DK 1970-2079	19700423
	ES 379011	A1	19720801	ES 1970-379011	19700424
	FR 2040451	A5	19710122	FR 1970-15647	19700429
	NL 7402745	A	19740527	NL 1974-2745	19740228
	NL 164020	B	19800616		
	NL 164020	C	19801117		
PRAI	JP 1969-33867		19690430		
GI					



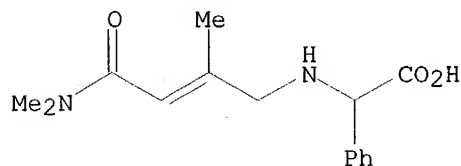
AB 6-(Aminoacylamido)penicillanic acid [I; R = PhCH(NH₂), .alpha.-amino-2-thenyl, (MeS)CH₂CH₂CH(NH₂), 1-aminocyclohexyl] are prepd. by reaction of 6-aminopenicillanic acid (II) with amino acid derivs., protected on the N with a .beta.-keto acid deriv. Thus, aminobenzylpenicillin [I; R = PhCH(NH₂)] is obtained in 60% yield by condensation of II with the mixed anhydride from pivalic acid and [[1-methyl-2-(morpholinocarbonyl)vinyl]amino]phenylacetic acid.

IT 61544-14-7

RL: RCT (Reactant)
 (acylation by, of 6-aminopenicillanic acid)

RN 61544-14-7 HCAPLUS

CN Benzeneacetic acid, .alpha.-[[4-(dimethylamino)-2-methyl-4-oxo-2-butenyl]amino]-, monosodium salt (9CI) (CA INDEX NAME)



● Na

L10 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2002 ACS

AN 1974:14945 HCAPLUS

DN 80:14945

TI Cephalosporins

IN Ishimaru, Toshiyasu; Kodama, Yutaka

PA Toyoma Chemical Co., Ltd.

SO Fr. Demande, 12 pp.

CODEN: FRXXBL

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2166316	A1	19730817	FR 1972-514	19720107
	FR 2166316	B1	19771028		

GI For diagram(s), see printed CA Issue.

AB Cephalosporins I (R = 2-thienylacetyl, PhCH(NH₂)CO, p-HOC₆H₄CH(NH₂)CO; R₁ = OAc, OMe, H) were prepd. by acylating I (R = H) in the presence of methoxysilyl chloride R₂(MeO)₂SiCl (R₂ = Me, MeO), or R₃(MeO)SiCl₂ (R₃ = Me, Ph, MeO). Thus I (R = H, R₁ = OAc) was treated with Me-(MeO)₂SiCl, followed by 2-thienylacetyl chloride and HCl to give 86% I (R = 2-thienylacetyl, R₁ = OAc) as its Na salt.

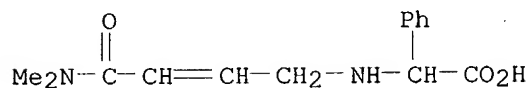
IT 50971-87-4 50971-89-6

RL: RCT (Reactant)

(acylation of cephalosporins by)

RN 50971-87-4 HCAPLUS

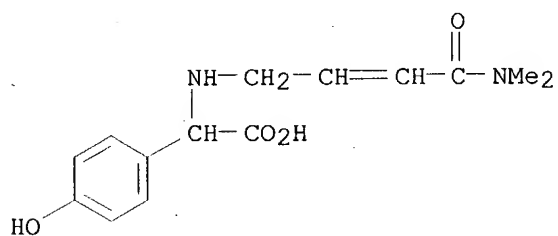
CN Benzeneacetic acid, .alpha.-[[4-(dimethylamino)-4-oxo-2-butenyl]amino]-, monosodium salt (9CI) (CA INDEX NAME)



● Na

RN 50971-89-6 HCAPLUS

CN Benzeneacetic acid, .alpha.-[[4-(dimethylamino)-4-oxo-2-butenyl]amino]-4-hydroxy-, monosodium salt (9CI) (CA INDEX NAME)



● Na